

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Catalog Numbers: VN1000-A, VN1000-B, VN1000-C, VN1000-D, VN1000-P, VN1000-Q, VN1000-G, VN1000-T

Product Identity: Distilled White vinegar 5%

Chemical Family: Not Applicable

Synonyms: No Information Available

Recommended Use: Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291
Emergency Contact Number (24hr): Chemtel (800) 255-3924

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Section 2 – Hazard Identification

Emergency Overview: If ingested give large quantities of water. Get medical attention. Wash areas of contact for at least 15 minutes.

Appearance: Clear, colorless liquid **Odor:** Vinegar-like

Target Organs: Eyes, skin, respiratory system, teeth.

Potential Health Effects/ Routes of Exposure:

Eyes: Causes irritation, redness, pain, tearing.

Skin: Causes irritation, redness and pain.

Ingestion: May cause irritation of the digestive tract.

Inhalation: Not likely to be a hazard by inhalation.

Chronic Effect / Carcinogenicity: None (IARC, NTP, OSHA)

Aggravated Medical Conditions No information Available.

These chemicals are considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

Acetic Acid, CAS# 64-19-7, 5% v/v

Water, purified, CAS# 7732-18-5, 95% w/v

Section 4 – First Aid

Eyes: Immediately flush eyes with water for at least 15 minutes. Get medical assistance immediately.

Skin: Flush with water for 15 minutes. Get medical assistance if irritation develops.

Ingestion: DO NOT induce vomiting. Dilute with water or milk. Get medical assistance.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Notes to Physician Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: No information Available **Autoignition Temperature:** No information Available

Explosion Limits Upper No Information Available **Lower** No Information Available

Extinguishing Media: Any means suitable for extinguishing surrounding fire.

Unsuitable Extinguishing Media: No information available

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard

Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.

Hazardous Combustion Products: No information Available.

Sensitivity to mechanical impact No information available.

Sensitivity to static discharge No information available.

Specific Hazards Arising from the Chemical: No information available

NFPA Rating: (estimated) Health: 2; Flammable: 0; Reactivity: 0

Section 6 – Accidental Release Measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Remove from all sources of ignition.

Environmental Precautions Should not be released into environment.

Methods for Containment and Clean Up Soak with inert material. Keep in suitable and closed containers for disposal. Always obey local regulations.

Section 7 – Handling and Storage

Handling: Wash hands after handling. Avoid contact with skin and eyes. Wear personal protective equipment.

Storage: Keep container tightly closed. Store in a cool, dry, well-ventilated area. Protect from freezing.

Section 8 – Exposure Controls, Personal Protection

Acetic Acid, CAS# 64-19-7, ACGIH TLV: 25mg/m³, OSHA PEL: 25mg/m³

Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

Engineering Measures/ General Hygiene: Normal ventilation is adequate

Personal Protection Equipment: Skin Protection: Chemical resistant gloves.

Eye/Face Protection: Safety Glasses or goggles. **Respiratory Protection:** Normal ventilation is adequate

Section 9 – Physical and Chemical Properties

Appearance/Physical State: Clear, colorless liquid

Odor: Vinegar-like

Boiling Point: 117-118C

Melting Point: 16.6C

Vapor Density: 2.07

Evaporation Rate: No information Available

pH: Acidic

Flammability: No Information Available

Solubility: Infinite

Relative Density: No Information Available

% Volatility: No Information Available

Specific Gravity: No Information Available

Vapor Pressure: No Information Available

Flash Point: No information Available

Coefficient of water/oil distribution: Not Available

Odor Threshold: Not Available

Decomposition Temperature: No Information Available

Partition Coefficient n-octanol/water: Not Available

Molecular Weight: 60.05

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatible Materials: Strong bases

Conditions to Avoid: No information Available

Hazardous Decomposition Products: irritating fumes

Hazardous Polymerization: Does not occur

Hazardous Reactions: None under normal processing.

Section 11 – Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2

LD50 orl-rat: 3310 mg/kg (Acetic Acid)

LC50 inhalation-rat: 5620 ppm/ 1hr. (Acetic Acid)

Irritation: No information Available

Toxicologically Synergistic: No Information Available

Chronic Exposure

Carcinogenicity No known carcinogenic chemicals.
Sensitization No information available.
Mutagenic Effects not mutagenic in AMES test.
Reproductive Effects Experiments have shown reproductive toxicity effects on laboratory animals for acetic acid.
Developmental Effects (Immediate/Delayed) No information available.
Teratogenicity No information available.
Other Adverse Effects No information available.
Endocrine Disruptor Information No information available.

Section 12 – Ecological Information

Ecotoxicity: Acetic Acid has high biochemical oxygen demand, and a potential to cause oxygen depletion in aquatic systems.
Persistence and Degradability: Expected to be biodegradable **Mobility:** No Information Available
Bioaccumulation/ Accumulation: No Information Available

Section 13 – Disposal Considerations

Chemical waste generates must determine whether a discarded chemical is classified as a hazardous waste. Comply with all local, state, and federal regulations.

Section 14 – Transport Information

DOT – Not Regulated

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are considered hazardous by OSHA.
Canada DSL: This chemical is listed on Canada's DSL list.
TSCA: These chemicals are listed on the TSCA Inventory.
SARA Title III Section 313: Not Applicable
RCRA Status: Not Applicable
CERCLA Reportable Quantity: Acetic Acid – 5000lbs.
WHMIS: Not-controlled

Section 16 – Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.